

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Roman Sobolewski et al.  
Assignee: Schlumberger Technologies, Inc. and University of Rochester  
Title: Superconducting Single Photon Detector  
Application No.: 09/628,116 Filing Date: July 28, 2000  
Examiner: Timothy J. Moran Group Art Unit: 2878  
Docket No.: M-8821 US

San Jose, California  
April 30, 2002

BOX NO FEE  
COMMISSIONER FOR PATENTS  
Washington, D. C. 20231

**RESPONSE TO OFFICE ACTION**

Dear Sir:

Applicants submit this amendment in response to the Office Action in this case having a mailing date of February 1, 2002.

**IN THE CLAIMS**

Please amend Claims 1 and 7 as follows: Attached hereto is Appendix A showing the changes to the claims; language that has been added is shown underlined and language that has been deleted is shown in brackets; all pending claims are shown here.

1. (Amended) A method of detecting photons, comprising the acts of:  
providing a superconductor strip maintained at a temperature below its critical temperature;  
electrically biasing said superconductor strip; and  
directing light onto said biased superconductor strip;  
wherein said biasing is at a level near said superconductor strip's critical current thereby to detect a single photon incident on said superconductor strip.

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